

100-1 大葉大學 完整版課綱

基本資訊

課程名稱	教育統計	科目序號 / 代號	0875 / ELF3018
開課系所	英美語文學系	學制 / 班級	大學日間部3年1班
任課教師	劉慧如	專兼任別	專任
必選修 / 學分數	選修 / 2	畢業班 / 非畢業班	非畢業班
上課時段 / 地點	(三)34 / J306	授課語言別	中文

課程簡介

This course is intended to teach students the most important ideas in statistics. Students will learn to interpret statistical information and have a basic understanding of the concepts such as levels of measurement, random sampling, the normal curve, and hypothesis testing. Many examples and exercises will be provided to build their understanding of these statistical concepts. They will not only learn useful skills for working with data, but also understand the role of statistics in the research process. In this course, students will have hands-on experience in using statistics software package to analyze data.

課程大綱

Measurement Concepts
Frequency Distribution
Measures of Central Tendency and Variability
The Normal Curve and Standard Scores
Hypothesis Testing
Paired Samples t Test
Independent Samples t Test
Analysis of Variance

基本能力或先修課程

None

課程與系所基本素養及核心能力之關連

-  基本能力
-  專業能力
-  實踐能力
-  整合能力素養
-  精進成長素養
-  人際關係素養
-  國際視野素養

教學計畫表

系所核心能力	權重(%) 【A】	檢核能力指標(績效指 標)	教學策略	評量方法及配分 權重	核心能力 學習成績 【B】	期末學習 成績 【C=B*A 】
基本能力	10%	1. Listening: To comprehend various contents and accents 2. Speaking: To achieve oral accuracy and fluency 3. Reading: To comprehend gist, details, implications in different contexts 4. Writing: To compose grammatically correct and comprehensible paragraphs 5. Translating: To develop knowledge and techniques of translation between Chinese and English	講述法 小組討論 小組合作 學生上台報告 專題報告	分組報告: 5% 小考: 20% 期中考: 25% 期末考: 25% 作業: 10% 小組合作狀況: 5% 書面報告: 10%	加總: 100	10
專業能力	30%	1. Literature: To appreciate and comprehend literary works of western masters 2. Linguistics: To acquire fundamental knowledge on structures and applications of English language 3. Translation and Interpretation: To translate and interpret properly between Chinese and English 4. English language teaching: To understand theories, approaches, issues in the topic area 5. Listening and Speaking: To organise thoughts and present in well-structured forms 6. Reading and Writing: To comprehend, analyse,	講述法 小組討論 實務操作(實驗、上機或實習等) 小組合作 學生上台報告 專題報告	分組報告: 5% 小考: 20% 期中考: 30% 期末考: 30% 作業: 10% 書面報告: 5%	加總: 100	30

實踐能力	20%	<p>1. Oral Presentation: to present ideas and thoughts in a well-structured form with modern technology</p> <p>2. Composition: to compose academic papers according to required formats</p> <p>3. Translation: to translate short stories, essays or newspapers</p> <p>4. Communication: to communicate efficiently</p>	<p>講述法 小組討論 實務操作(實驗、上機或實習等) 小組合作 學生上台報告 專題報告</p>	<p>分組報告: 5% 小考: 5% 期中考: 5% 期末考: 5% 作業: 20% 課程參與度: 40% 小組合作狀況: 10% 書面報告: 10%</p>	加總: 100	20
整合能力素養	15%	<p>1. Integration: To develop, organise and manage issues from different perspectives</p> <p>2. Co-ordination: To accept different opinions and foster teamwork spirit</p> <p>3. Leadership: To lead and provide guidance</p>	<p>講述法 小組討論 小組合作 學生上台報告 專題報告</p>	<p>分組報告: 10% 期中考: 10% 期末考: 15% 作業: 25% 小組合作狀況: 10% 書面報告: 30%</p>	加總: 100	15
精進成長素養	15%	<p>1. Autonomy: To organise, plan and complete tasks independently</p> <p>2. Critical thinking: To form logical interpretation and criticism on different issues</p> <p>3. Self-esteem: To respect self and others</p>	<p>講述法 小組討論 小組合作 學生上台報告 專題報告</p>	<p>分組報告: 5% 小考: 10% 期中考: 10% 期末考: 20% 作業: 10% 課程參與度: 15% 小組合作狀況: 10% 書面報告: 20%</p>	加總: 100	15
人際關係素養	5%	<p>1. Professional ethics: To equip well-rounded professional concepts and attitudes</p> <p>2. Humanistic concerns: To cultivate compassion, sympathy and empathy for others</p> <p>3. Interpersonal relationship: To practice interpersonal communication efficiently</p>	<p>講述法 小組討論 小組合作 學生上台報告 專題報告</p>	<p>分組報告: 30% 作業: 30% 小組合作狀況: 10% 書面報告: 30%</p>	加總: 100	5

國際視野素養	5%	2. Global citizenship: To have compassion for the world 1. World vision: To recognise the importance of self to the world 3. International awareness: To be aware of and respect different cultures	講述法 小組討論 小組合作 學生上台報告 專題報告	分組報告: 20% 作業: 40% 書面報告: 40%	加總: 100	5
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成績稽核

期末考: 17.75%

作業: 16.75%

期中考: 15.5%

書面報告: 15.5%

小考: 10.5%

課程參與度: 10.25%

分組報告: 7.75%

小組合作狀況: 6%

教科書(尊重智慧財產權, 請用正版教科書, 勿非法影印他人著作)

書名	作者	譯者	出版社	出版年
Understanding Statistics in the Behavioral Sciences	Pagano, R. R.		Wadsworth/Thomson Learning	0

參考教材及專業期刊導讀(尊重智慧財產權, 請用正版教科書, 勿非法影印他人著作)

書名	作者	譯者	出版社	出版年
Elementary Statistics in Social Research	Levin, J. & Fox, J. A.		Pearson	0
Statistical Reasoning in Psychology and Education	Minium, E. W., King, B. M., & Bear, G.		Wiley	0
The Essentials of Statistics: A Tool for Social Research	Healey, J. F.		Thomson Wadsworth	0
量化研究與統計分析	邱皓政		五南	0

上課進度		分配時數(%)				
週次	教學內容	講授	示範	習作	實驗	其他
1	Introduction to Statistics	70		30		
2	Measurement Concepts	70		30		
3	Holiday	70		30		
4	Frequency Distribution	70		30		
5	Frequency Distribution	70		30		
6	Measures of Central Tendency and Variability	70		30		
7	Measures of Central Tendency and Variability	70		30		
8	Measures of Central Tendency and Variability	70		30		
9	Midterm exam	0		0		
10	The Normal Curve and Standard Scores	70		30		
11	The Normal Curve and Standard Scores	50		50		
12	Hypothesis Testing	50		50		
13	Hypothesis Testing	50		50		
14	Sampling Distribution, Sampling Distribution of the Mean, the Normal Test	50		50		
15	Sampling Distribution, Sampling Distribution of the Mean, the Normal Test	70		30		
16	Student's t Test	70		30		
17	Student's t Test for Correlated and Independent Groups	70		30		
18	Final Exam	70		30		